

Measuring Game

This activity was devised by Peter Wardle in 1988. The pictures were drawn for the activity and we are putting online because it is now possible to download larger files quickly. Like many of our activities it is designed to encourage children to research and produce further examples of tasks and more methods of measuring.

The webaddress for this activity is:

<http://www.collaborativelearning.org/measuringgame.pdf>

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COLLABORATIVE LEARNING PROJECT

Project Director: Stuart Scott

Supporting a cooperative network of teaching professionals throughout the European Union to develop and disseminate accessible teaching materials in all subject areas and for all ages.

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BRIEF SUMMARY OF BASIC PRINCIPLES BEHIND OUR TEACHING ACTIVITIES:

The project is a teacher network, and a non-profit making educational trust. Our main aim is to develop and disseminate classroom tested examples of effective group strategies across all phases and subjects. We hope they will inspire you to develop and use similar strategies in other topics and curriculum areas. We want to encourage you to change them and adapt them to your classroom and students. We run teacher workshops, swapshops and conferences throughout the European Union. The project posts online many activities in all subject areas. A newsletter 'PAPERCLIP' is also updated regularly.

*These activities were influenced by current thinking about the role of language in learning. They are designed to help children learn through talk and active learning in small groups. They work best in non selective classes where children in need of language or learning support are integrated. They are well suited for the development of speaking and listening . They provide teachers opportunities for assessment of speaking and listening and other formative assessment.

*They support differentiation by placing a high value on what children can offer to each other on a particular topic, and also give children the chance to respect each other's views and formulate shared opinions which they can disseminate to peers. By helping them to take ideas and abstract concepts, discuss, paraphrase and move them about physically, they help to develop thinking skills.

*They give children the opportunity to participate in their own words and language in their own time without pressure. Many activities can be tried out in mother tongue and afterwards in English. A growing number of activities are available in more than one language, not translated, but mixed, so that you may need more than one language to complete the activity.

*They encourage study skills in context, and should therefore be used with a range of appropriate information books which are preferably within reach in the classroom.

*They are generally adaptable over a wide age range because children can bring their own knowledge to an activity and refer to books at an appropriate level. The activities work like catalysts.

*All project activities were planned and developed by teachers working together, and the main reason they are disseminated is to encourage teachers to work effectively with each other inside and outside the classroom. They have made it possible for mainstream and language and learning support teachers to share an equal role in curriculum delivery. They should be adapted to local conditions. In order to help us keep pace with curriculum changes, please send any new or revised activities back to the project, so that we can add them to our lists of materials.

Measuring Game

Imagine that you live hundreds of years ago. You may need to do some measuring.

PLAY THE GAME!

This is a game for a group of four to six players.

1. Give each player a large card. There are four measuring tasks on each card.
2. Shuffle the small cards. Place them in a pile face downwards.
3. Take turns to take a small card. Keep the card if it will help you with one of your tasks and place it above the task on your large board. You will need to explain to the rest of the group why it will help you.
4. If the card is not helpful pass it round the group clockwise until a player can fit it to a measuring task.
5. Play the game until everybody's large card is filled.

AFTER THE GAME

Put the task cards away.
Leave the small cards out.
Place the four set cards on the table. Then arrange the correct small cards around each set card.

Set Card

For measuring time.

Set Card

For measuring volume.

Set Card

For measuring length
and height.

Set Card

For weighing things.



1

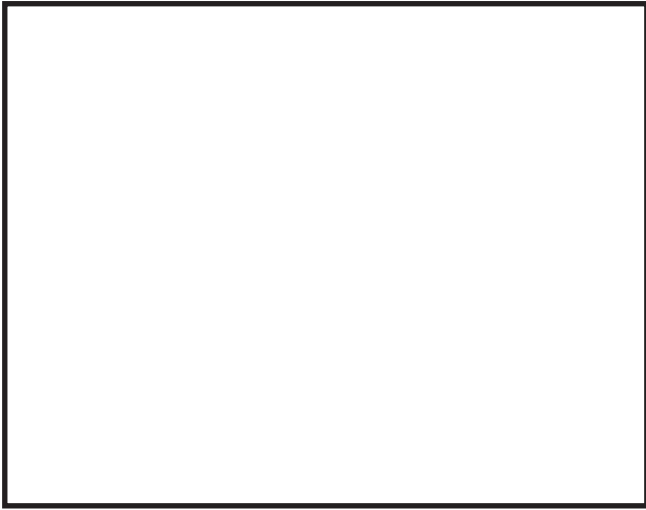


You want to know how many days there are in summer.

You want to measure a small amount of gold dust.



You need to know the size of a field.



You need to measure flour, sugar and fruit for cake you want to make

2

You want to give your friends equal shares of some cheese you have made.

You need to know the height of a horse.

You want to make bricks that are all the same size.

You want to know how long it takes for potatoes to grow.

3

You need to know how long it takes to bake a cake.

You want to give your friends an equal share of some milk.

You want to know how long it takes to boil an egg.

You need to make some arrows that are all the same length.



4




You want to measure how much rain has fallen.

You want to measure a roll of cloth.



You want to know how wide a river is.



You need to know how much rice you have grown.

5

You want to find out how far you can shoot an arrow.

You want to measure a small fish.

You want to measure a small amount of medicine.

You want to make some wooden posts that are all the same size.

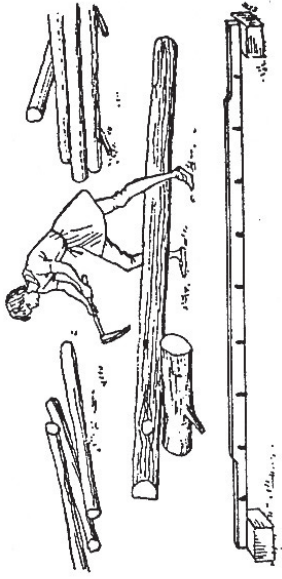
6

You need to give your chickens the same amount of food each day.

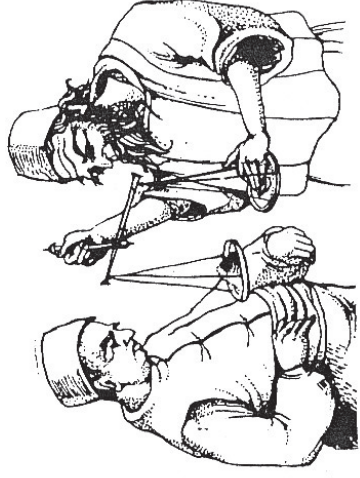
You need to know the size of a room in your house.

You want to measure the mast of a boat.

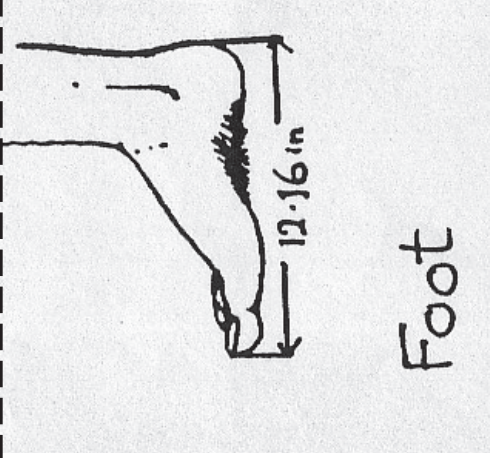
You need to weigh some fruit that you are selling.



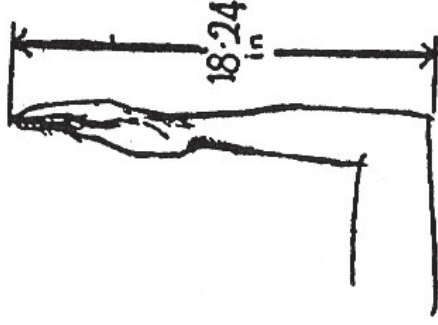
Builder's Rod



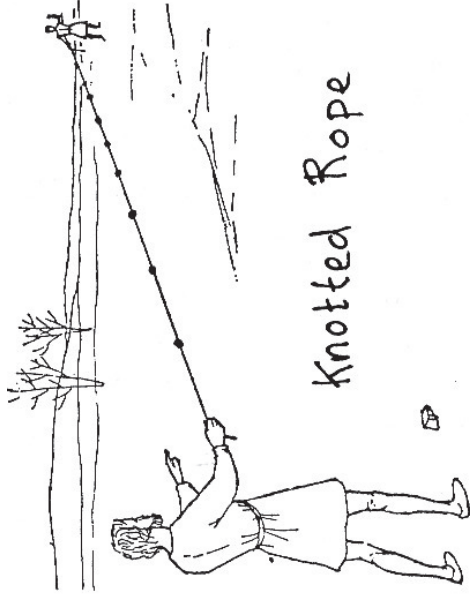
Balance



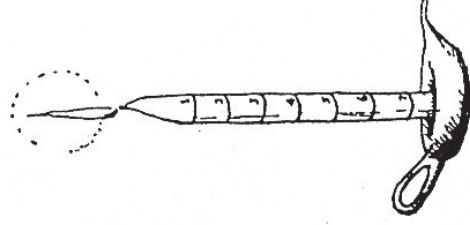
Foot



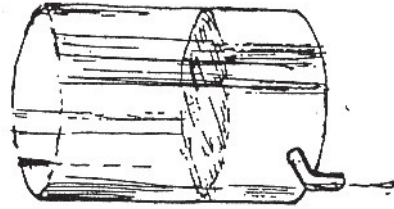
Forearm
or
Cubit



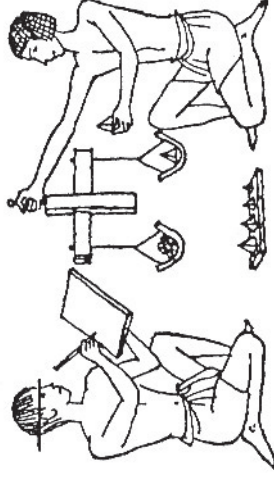
Knotted Rope



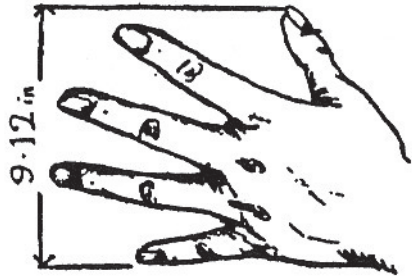
Candle Clock



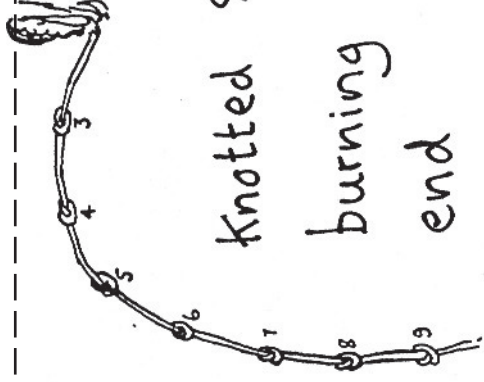
Water Clock



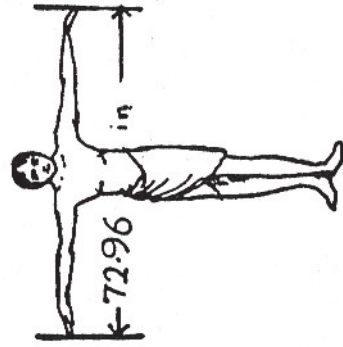
Egyptian Scales



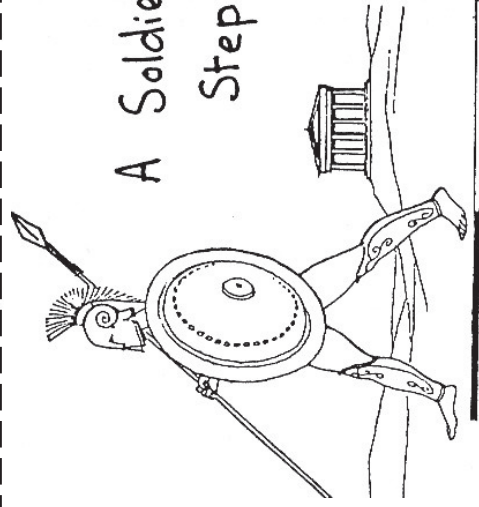
Hand Span



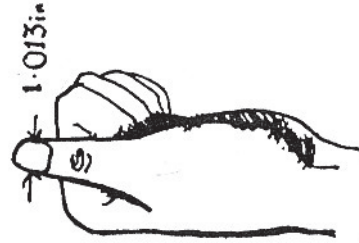
Knotted String
burning at one
end



Arm Span



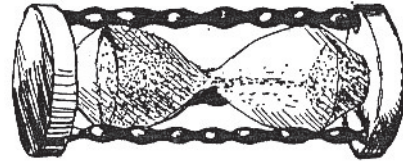
A Soldier's
Step



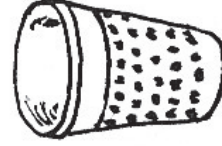
Thumb Width
or inch



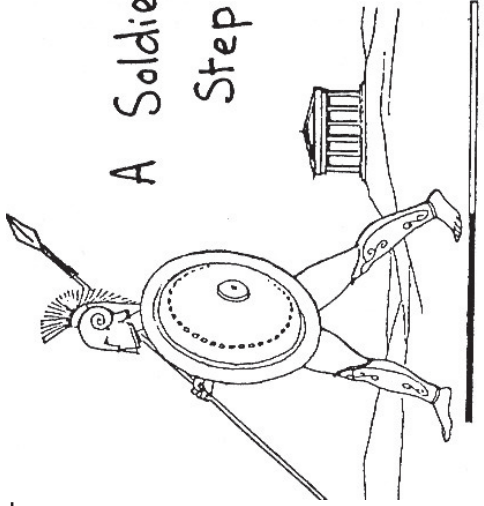
Spoon



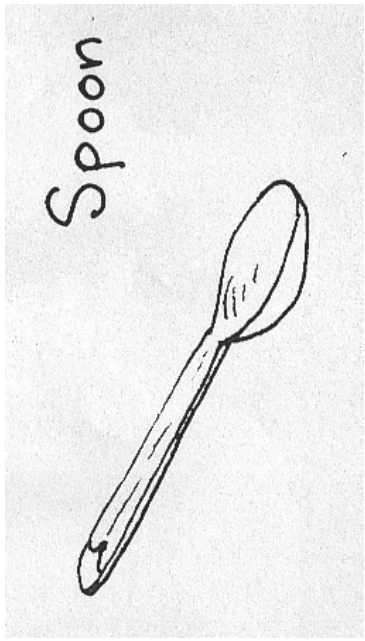
Hour Glass



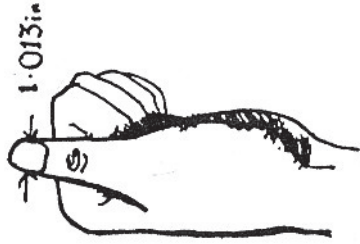
Thimble



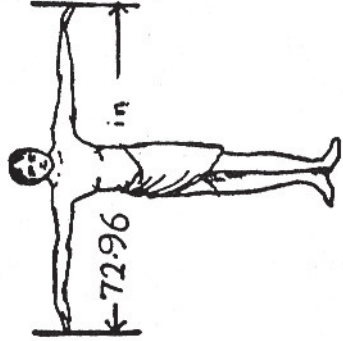
A Soldier's
Step



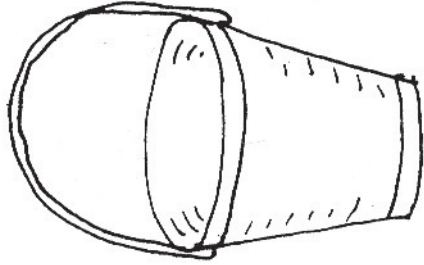
Spoon



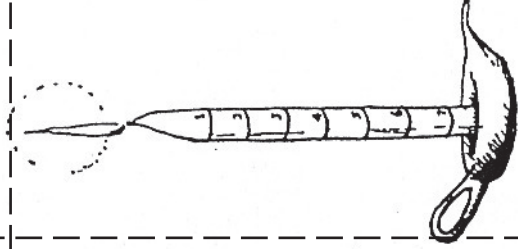
Thumb Width
or inch



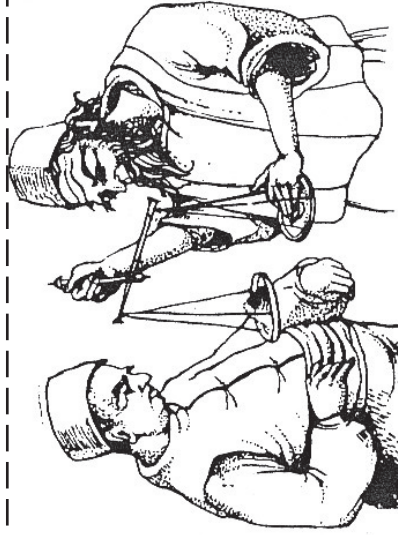
Arm Span



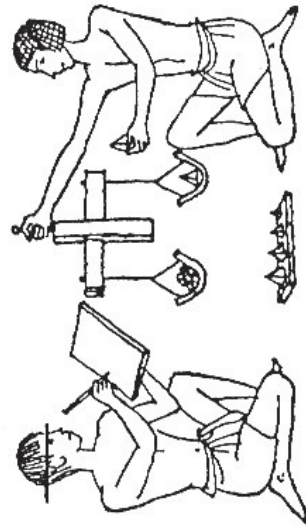
Bucket



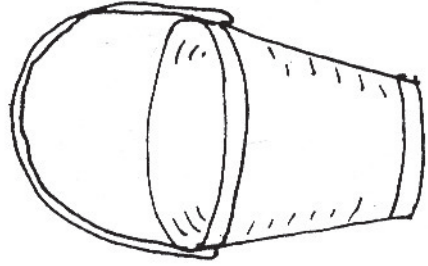
Candle Clock



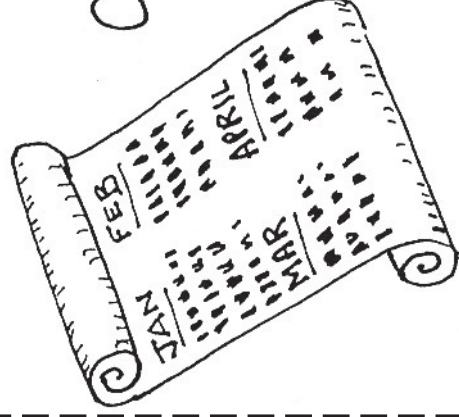
Balance



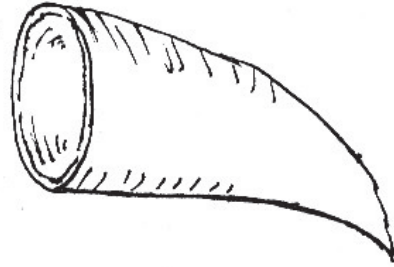
Egyptian Scales



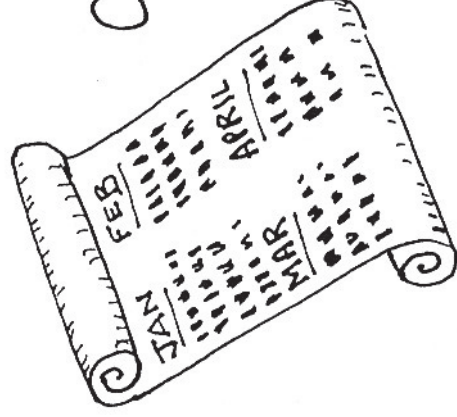
Bucket



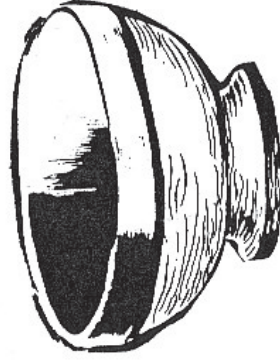
Calendar



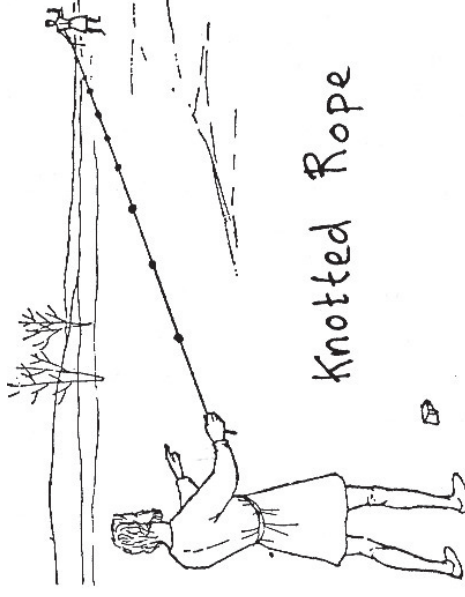
Horn Cup



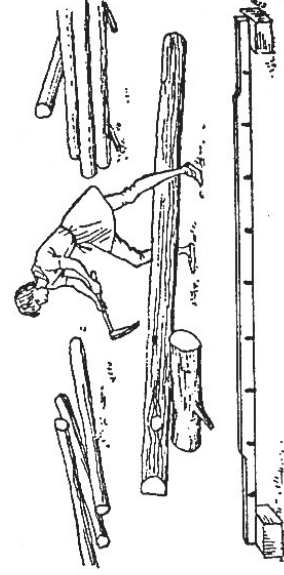
Calendar



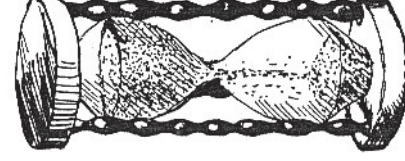
Bowl



Knotted Rope



Builder's Rod



Hour Glass